

? t1/4/

1/4/1 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

IM- \*Image available\*

AA- 2003-267399/200326|

XR- <XRPX> N03-212583|

TI- Application for Internet, includes instructions to open local firewall-window between UDP ports, in response to received null UDP packet, to transmit UDP packets containing user data to socket subsystem and transport layer|

PA- BOYLE S C (BOYL-I); KIRCHHOFF D C (KIRC-I)|

AU- <INVENTORS> BOYLE S C ; KIRCHHOFF D C |

NC- 001|

NP- 001|

PN- US 20030018912 A1 20030123 US 2001682084 A 20010718 200326 B|

AN- <LOCAL> US 2001682084 A 20010718|

AN- <PR> US 2001682084 A 20010718|

LA- US 20030018912(15)|

AB- <PN> US 20030018912 A1|

AB- <NV> NOVELTY - The application includes instructions for generating a null UDP packet, in response to TCP packet received from external manager. A window in local firewall, is opened between local and remote UDP port in response to generated null UDP packet, for transmitting UDP packets containing user data, received from the remote client to socket subsystem and transport layer.|

AB- <BASIC> DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) communication establishment method; and  
(2) computer program product comprising computer readable medium including remote communication program.

USE - For communicating client through Internet.

ADVANTAGE - Since UDP packets are transferred through firewall-window, the voice data is efficiently transferred and the higher bandwidth is available for a call, thus connection is allowed for voice traffic, even though external manager is used to initiate the call and 2-way walls of video communication is facilitated.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart explaining call setup, firewall-window opening and direct packet transfer processes for firewall communication program.

pp; 15 DwgNo 6/10|

DE- <TITLE TERMS> APPLY; INSTRUCTION; OPEN; LOCAL; FIREWALL; WINDOW; PORT; RESPOND; RECEIVE; NULL; PACKET; TRANSMIT; PACKET; CONTAIN; USER; DATA; SOCKET; SUBSYSTEM; TRANSPORT; LAYER|

DC- T01; W01|

IC- <MAIN> H04L-009/00|

MC- <EPI> T01-N01D1B; T01-N02B1A; T01-S03; W01-A03B; W01-A06A; W01-A06F2; W01-C05B4C|

FS- EPI||

Voice transfer

File management  
access

Testing &  
Monitoring  
Return  
large  
packets

Packet transmission  
H04L-02/56

BEST AVAILABLE COPY

```

? show files;ds
File 348:EUROPEAN PATENTS 1978-2004/Nov W04
(c) 2004 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20041202,UT=20041125
(c) 2004 WIPO/Univentio

Set      Items      Description
S1        37        AU=(BOYLE S? OR BOYLE, S? OR KIRCHHOFF D? OR KIRCHHOFF, D?)-
S2        7980      USER() (DATAGRAM OR DATA()GRAM) ()PACKET? ? OR UDP OR UDPS
S3        2562      VOICE()OVER()INTERNET()PROTOCOL? OR VOIP OR VOIPS
S4        253       (OPEN? OR HOLE? OR SPACE? OR CAVITY OR SPLIT OR CRACK? OR -
                  WINDOW? OR DOOR OR FAULT OR VENT? OR GAP?) (3N) (FIREWALL OR FI-
                  RE()WALL)
S5        3147      NULL(2N) (PACKET? ? OR S2) OR (NO OR "NOT") (1W) FLAG?
S6        0          (ALLOW? OR ENABL? OR PERMIT? OR SET?()UP OR SETUP OR LET?)-
                  (1W) (HOLE OR WINDOW OR SPACE OR GAP) (1W) S2
S7        19        (SHARE? OR THRESHOLD OR MULTIPARTY OR MULTI()PARTY OR MULT-
                  I() (USER OR PARTY)) (5N) (ENCRYPTION OR DECRPYTION OR CRYPTO?) (-
                  8N) (SELECT? OR CHOOS? OR PICK OR DETERMIN?) (3N) (SHAREHOLDER? -
                  OR PART OR PERSON OR USER)
S8        23        (SHARE? OR THRESHOLD OR MULTIPARTY OR MULTI()PARTY OR MULT-
                  I() (USER OR PARTY)) (5N) (ENCRYPTION OR DECRYPTION OR CRYPTO?) (-
                  8N) (SELECT? OR CHOOS? OR PICK OR DETERMIN?) (3N) (SHAREHOLDER? -
                  OR PART OR PERSON OR USER)
S9        0          MC=(T01-N01D1B? OR T01-N02B1A? OR T01-S03?) AND MC=(W01-A0-
                  3B? OR W01-A06A? OR W01-A06F2?)
S10       8          S1 AND (S2:S9)
S11       624        (S2 OR S4 OR S5 OR S7:S8) AND S3
S12       131        (S2 OR S4 OR S7:S9) AND S5
S13       759        S10:S12
S14       17         S3 AND S5
S15       130        S2 AND S5
S16       3          S2 AND (S4 OR S6 OR S7 OR S8) AND S5
S17       0          S3 AND (S4 OR S6 OR S7:S8) AND S5
S18       28         S10 OR S14 OR S16
S19       14         S18 NOT PY>2001
S20       252        (S2 OR S4 OR S5 OR S7:S8) (2S)S3
S21       25         (S2 OR S4 OR S7:S9) (2S)S5
S22       11         S21 NOT PY>2001
S23       25         S19 OR S22
? t23/3, k/all

```

**23/3,K/1 (Item 1 from file: 348)**  
 DIALOG(R)File 348:EUROPEAN PATENTS  
 (c) 2004 European Patent Office. All rts. reserv.

01361631  
 Improvements to broadcast data receiver and data transmission apparatus  
 Verbesserungen fur Rundfunkdatenempfangsgerat und Datenubertragungsgerat  
 Perfectionnements apportes a un dispositif de reception de donnees  
 diffusees et a un appareil de transmission de donnees

PATENT ASSIGNEE:

Pace Micro Technology Ltd, (2347220), Victoria Road, Saltaire, Shipley  
 BD18 3LF, (GB), (Applicant designated States: all)

INVENTOR:

Hoath, William, 13 Banball Lane, Hale, Altrincham, Cheshire WA15 0LA,  
 (GB)

LEGAL REPRESENTATIVE:

Wood, Graham (78011), Bailey Walsh & Co, 5 York Place, Leeds LS1 2SD,  
 (GB)

PATENT (CC, No, Kind, Date): EP 1161083 A1 011205 (Basic)

```
? show files;ds
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200477
    (c) 2004 Thomson Derwent
File 344:Chinese Patents Abs Aug 1985-2004/May
    (c) 2004 European Patent Office
File 347:JAPIO Nov 1976-2004/Jul(Updated 041102)
    (c) 2004 JPO & JAPIO
File 371:French Patents 1961-2002/BOPI 200209
    (c) 2002 INPI. All rts. reserv.
```

Set	Items	Description
S1	52	AU=(BOYLE S? OR BOYLE, S? OR KIRCHHOFF D? OR KIRCHHOFF, D?)
S2	1220	USER() (DATAGRAM OR DATA()GRAM) ()PACKET? ? OR UDP OR UDPS
S3	1630	VOICE()OVER()INTERNET()PROTOCOL? OR VOIP OR VOIPS
S4	83	(OPEN? OR HOLE? OR SPACE? OR CAVITY OR SPLIT OR CRACK? OR - WINDOW? OR DOOR OR FAULT OR VENT? OR GAP?) (3N) (FIREWALL OR FI- RE()WALL)
S5	555	NULL (2N) (PACKET? ? OR S2) OR (NO OR "NOT") (1W) FLAG?
S6	0	(ALLOW? OR ENABL? OR PERMIT? OR SET?()UP OR SETUP OR LET?) - (1W) (HOLE OR WINDOW OR SPACE OR GAP) (1W) S2
S7	2	(SHARE? OR THRESHOLD OR MULTIPARTY OR MULTI()PARTY OR MULT- I() (USER OR PARTY)) (5N) (ENCRYPTION OR DECRPYTION OR CRYPTO?) (- 8N) (SELECT? OR CHOOS? OR PICK OR DETERMIN?) (3N) (SHAREHOLDER? - OR PART OR PERSON OR USER)
S8	3	(SHARE? OR THRESHOLD OR MULTIPARTY OR MULTI()PARTY OR MULT- I() (USER OR PARTY)) (5N) (ENCRYPTION OR DECRYPTION OR CRYPTO?) (- 8N) (SELECT? OR CHOOS? OR PICK OR DETERMIN?) (3N) (SHAREHOLDER? - OR PART OR PERSON OR USER)
S9	4782	MC=(T01-N01D1B? OR T01-N02B1A? OR T01-S03?) AND MC=(W01-A0- 3B? OR W01-A06A? OR W01-A06F2?)
S10	1	S1 AND (S2:S9)
S11	22	(S2 OR S4 OR S5 OR S7:S8) AND S3
S12	4	(S2 OR S4 OR S7:S9) AND S5
S13	26	S10:S12

? t13/4/all

**13/4/1 (Item 1 from file: 350)**  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

IM- \*Image available\*  
AA- 2004-716236/2004701  
TI- Application level framing device of media gateway control protocol and  
method thereof  
PA- ELECTRONICS & TELECOM RES INST (ELTE-N)  
AU- <INVENTORS> KIM D U; LEE B S; LIM J C  
NC- 001  
NP- 001  
PN- KR 2004050947 A 20040618 KR 200278746 A 20021211 200470 B  
AN- <LOCAL> KR 200278746 A 20021211  
AN- <PR> KR 200278746 A 20021211  
LA- KR 2004050947(1)  
AB- <PN> KR 2004050947 A  
AB- <NV> NOVELTY - An ALF(Application Level Framing) device of an  
Megaco(Media Gateway Control Protocol) is provided to combine an  
efficient ALF method with quick performance of a **UDP** (User Datagram  
Protocol), and to exchange an Megaco message between an MGC(Media  
Gateway Controller) and an MG(Media Gateway), thereby supplying a quick  
end-to-end **VoIP** service.  
AB- <BASIC> DETAILED DESCRIPTION - A transaction request processor(301)  
requests other station to perform an optional command. A transaction

```
? show files;ds
File 2:INSPEC 1969-2004/Nov W3
    (c) 2004 Institution of Electrical Engineers
File 35:Dissertation Abs Online 1861-2004/Nov
    (c) 2004 ProQuest Info&Learning
File 65:Inside Conferences 1993-2004/Nov W4
    (c) 2004 BLDSC all rts. reserv.
File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Oct
    (c) 2004 The HW Wilson Co.
File 233:Internet & Personal Comp. Abs. 1981-2003/Sep
    (c) 2003 EBSCO Pub.
File 256:TecInfoSource 82-2004/Nov
    (c) 2004 Info.Sources Inc
File 474:New York Times Abs 1969-2004/Dec 02
    (c) 2004 The New York Times
File 475:Wall Street Journal Abs 1973-2004/Dec 02
    (c) 2004 The New York Times
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
    (c) 2002 The Gale Group
```

Set	Items	Description
S1	105	AU=(BOYLE S? OR BOYLE, S? OR KIRCHHOFF D? OR KIRCHHOFF, D?)
S2	2028	USER() (DATAGRAM OR DATA()GRAM) () PACKET? ? OR UDP OR UDPS
S3	3399	VOICE()OVER()INTERNET()PROTOCOL? OR VOIP OR VOIPS
S4	135	(OPEN? OR HOLE? OR SPACE? OR CAVITY OR SPLIT OR CRACK? OR - WINDOW? OR DOOR OR FAULT OR VENT? OR GAP?) (3N) (FIREWALL OR FI- RE()WALL)
S5	115	NULL(2N) (PACKET? ? OR S2) OR (NO OR "NOT") (1W) FLAG?
S6	0	(ALLOW? OR ENABL? OR PERMIT? OR SET?()UP OR SETUP OR LET?) - (1W) (HOLE OR WINDOW OR SPACE OR GAP) (1W) S2
S7	2	(SHARE? OR THRESHOLD OR MULTIPARTY OR MULTI()PARTY OR MULT- I() (USER OR PARTY)) (5N) (ENCRYPTION OR DECRPYTION OR CRYPTO?) (- 8N) (SELECT? OR CHOOS? OR PICK OR DETERMIN?) (3N) (SHAREHOLDER? - OR PART OR PERSON OR USER)
S8	2	(SHARE? OR THRESHOLD OR MULTIPARTY OR MULTI()PARTY OR MULT- I() (USER OR PARTY)) (5N) (ENCRYPTION OR DECRYPTION OR CRYPTO?) (- 8N) (SELECT? OR CHOOS? OR PICK OR DETERMIN?) (3N) (SHAREHOLDER? - OR PART OR PERSON OR USER)
S9	0	MC=(T01-N01D1B? OR T01-N02B1A? OR T01-S03?) AND MC=(W01-A0- 3B? OR W01-A06A? OR W01-A06F2?)
S10	0	S1 AND (S2:S9)
S11	39	(S2 OR S4 OR S5 OR S7:S8) AND S3
S12	0	(S2 OR S4 OR S7:S9) AND S5
S13	39	S10:S12
S14	0	S3 AND S5
S15	0	S2 AND S5
S16	0	S2 AND (S4 OR S6 OR S7 OR S8) AND S5
S17	0	S3 AND (S4 OR S6 OR S7:S8) AND S5
S18	0	S10 OR S14 OR S16
S19	0	S18 NOT PY>2001
S20	33	(S2 OR S4 OR S5 OR S7:S8) (2S) S3
S21	0	(S2 OR S4 OR S7:S9) (2S) S5
S22	0	S21 NOT PY>2001
S23	0	S19 OR S22
S24	41	S7 OR S8 OR S11 OR S13 OR S20
S25	23	S24 NOT PY>2001
S26	23	RD (unique items)

? t26/3, k/all

26/3,K/1 (Item 1 from file: 2)
DIALOG(R) File 2:INSPEC

```

? show files;ds
File 647:CMP Computer Fulltext 1988-2004/Nov W3
    (c) 2004 CMP Media, LLC
File 275:Gale Group Computer DB(TM) 1983-2004/Dec 03
    (c) 2004 The Gale Group
File 674:Computer News Fulltext 1989-2004/Sep W1
    (c) 2004 IDG Communications
File 696:DIALOG Telecom. Newsletters 1995-2004/Dec 03
    (c) 2004 The Dialog Corp.
File 239:Mathsci 1940-2004/Jan
    (c) 2004 American Mathematical Society
File 369:New Scientist 1994-2004/Nov W3
    (c) 2004 Reed Business Information Ltd.
File 634:San Jose Mercury Jun 1985-2004/Dec 02
    (c) 2004 San Jose Mercury News
File 256:TecInfoSource 82-2004/Nov
    (c) 2004 Info.Sources Inc

```

Set	Items	Description
S1	3	AU=(BOYLE S? OR BOYLE, S? OR KIRCHHOFF D? OR KIRCHHOFF, D?)
S2	2024	USER() (DATAGRAM OR DATA()GRAM) ()PACKET? ? OR UDP OR UDPS
S3	10243	VOICE()OVER()INTERNET()PROTOCOL? OR VOIP OR VOIPS
S4	1181	(OPEN? OR HOLE? OR SPACE? OR CAVITY OR SPLIT OR CRACK? OR - WINDOW? OR DOOR OR FAULT OR VENT? OR GAP?) (3N) (FIREWALL OR FI- RE()WALL)
S5	408	NULL(2N) (PACKET? ? OR S2) OR (NO OR "NOT") (1W)FLAG?
S6	0	(ALLOW? OR ENABL? OR PERMIT? OR SET?()UP OR SETUP OR LET?) - (1W) (HOLE OR WINDOW OR SPACE OR GAP) (1W)S2
S7	5	(SHARE? OR THRESHOLD OR MULTIPARTY OR MULTI()PARTY OR MULT- I() (USER OR PARTY)) (5N) (ENCRYPTION OR DECRPYTION OR CRYPTO?) (- 8N) (SELECT? OR CHOOS? OR PICK OR DETERMIN?) (3N) (SHAREHOLDER? - OR PART OR PERSON OR USER)
S8	5	(SHARE? OR THRESHOLD OR MULTIPARTY OR MULTI()PARTY OR MULT- I() (USER OR PARTY)) (5N) (ENCRYPTION OR DECRYPTION OR CRYPTO?) (- 8N) (SELECT? OR CHOOS? OR PICK OR DETERMIN?) (3N) (SHAREHOLDER? - OR PART OR PERSON OR USER)
S9	0	MC=(T01-N01D1B? OR T01-N02B1A? OR T01-S03?) AND MC=(W01-A0- 3B? OR W01-A06A? OR W01-A06F2?)
S10	0	S1 AND (S2:S9)
S11	180	(S2 OR S4 OR S5 OR S7:S8) AND S3
S12	3	(S2 OR S4 OR S7:S9) AND S5
S13	183	S10:S12
S14	0	S3 AND S5
S15	3	S2 AND S5
S16	0	S15 NOT S12
S17	0	S2 AND (S4 OR S6 OR S7 OR S8) AND S5
S18	0	S3 AND (S4 OR S6 OR S7:S8) AND S5
S19	0	S10 OR S14 OR S16
S20	0	S18 NOT PY>2001
S21	96	(S2 OR S4 OR S5 OR S7:S8) (2S)S3
S22	2	(S2 OR S4 OR S7:S9) (2S)S5
S23	54	S21 NOT PY>2001
S24	2	S19 OR S22
S25	56	S23 OR S24
S26	49	RD (unique items)

? t26/3, k/all

**26/3,K/1 (Item 1 from file: 647)**  
 DIALOG(R)File 647:CMP Computer Fulltext  
 (c) 2004 CMP Media, LLC. All rts. reserv.

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- BLACK BORDERS**
- IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- FADED TEXT OR DRAWING**
- BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- SKEWED/SLANTED IMAGES**
- COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- GRAY SCALE DOCUMENTS**
- LINES OR MARKS ON ORIGINAL DOCUMENT**
- REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- OTHER: \_\_\_\_\_**

**IMAGES ARE BEST AVAILABLE COPY.**

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.